AUTHOR INDEX

(D) Denotes Demonstration, (T) Title only, (C) Communications, (PC) Poster Communications

AARONSON Philip I. & JONES Allan W. Calcium regulation of potassium fluxes in rabbit aorta during activation by noradrenaline or high potassium medium. 27

ABRAMOVICH D.R., DACKE C.G., PAGE K.R., SWEIRY J.H. & YUDILEVICH D.L. Evidence for carrier-mediated uptake of calcium and choline at maternal and fetal sides of the perfused human placenta. (C) 60*P*

ABRAMOVICH D.R., DACKE C.G., HUNTER C., PAGE K.R. & RENSHAW P. Bi-directional phosphate fluxes across the isolated dually perfused human placental lobule. (PC) 95*P*

ADRIEN J., BLANC G., BUISSERET P., FRÉGNAC Y., GARY-BOBO E., IMBERT M., TASSIN J.P. & TROTTER Y. Noradrenaline and functional plasticity in kitten visual cortex: a re-examination. 73

AITKEN J.C. & THOMPSON J. Maximum functional heart rate during exercise and its prediction from the respiratory exchange ratio. (C) 51*P*

AITON J.F., CRAMB G. & WOOD Rosamonde The use of transformed human lymphocytes to study cation transport and β-adrenoceptor function in manic depressive psychosis. (D) 4*P*

AITON J.F., CRAMB G. & WOOD Rosamonde Measurement of intracellular nucleotide content of primary and established cell cultures using reverse-phase ion-pair chromatography. (D) 5*P*

AITON J.F., NAYLOR G. & WOOD Rosamonde Effects of chronic vanadate treatment on intracellular ion contents, cation fluxes and ouabain binding in cultured HeLa cells. (PC) 91*P*

AITON J.F. & CRAMB G. Atrial natriuretic factor stimulates cGMP production in rabbit ventricular myocytes. (PC) 101*P*

ALGHARABLY N. & LAMB J.F. The subcellular localisation of, and the effect of chloroquine on, ouabain and digoxin after binding to HeLa cells. (PC) 93*P*

ALTRINGHAM J.D. & JOHNSTON I.A. Adenosine triphosphatase measurements in skinned muscle fibres from fish using high-performance liquid chromatography. (D) 6*P*

ALVAREZ Sarah L. & JACOBS N.A. Recovery of visual function in retrobulbar neuritis with drink. (C) 27*P*

ANDERSON E., BAUDRY M., LYNCH G. & MORRIS R.G.M. Selective impairment of learning and blockade of long-term potentiation in rats by an *N*-methyl-D-aspartate receptor antagonist, APV-5. (C) 31*P*

ANDREWS B.J., BAJD T. & BAXENDALE R.H. Cutaneous electrical stimulation and reductions in spinal spasticity in man. (PC) 86*P*

ANDREWS Karen L., HUTTON Therese & SINGH J. Serum increases contractile force in the isolated frog ventricle and the rat heart. (C) 81*P*

ARBUTHNOTT G.W., MACLEOD N.K. & RUTHERFORD A. The rat cortico-striatal pathway *in-vitro*. (PC) 102*P*

ARMSTRONG D.M. & DREW T. Electromyographic responses evoked in muscles of the forelimb by intracortical stimulation in the cat. 309

ARMSTRONG D.M. & DREW T. Forelimb electromyographic responses to motor cortex stimulation during locomotion in the cat. 327

ASHLEY C.C. & TIMMERMAN M.P. Use of the new fluorescent Ca^{2+} indicator fura-2 to detect Ca^{2+} concentration changes in electrically stimulated *Balanus* muscle fibres. (C) 64*P*

ASHLEY C.C. & PRITCHARD K. Free calcium changes indicated by the fluorescent dye, fura-2, in smooth muscle cells isolated from guinea-pig taenia coli. (PC) 90*P*

AUGUSTINE George J., CHARLTON Milton P. & SMITH Stephen J. Calcium entry into voltage-clamped presynaptic terminals of squid. 143

AUGUSTINE George J., CHARLTON Milton P. & SMITH Stephen J. Calcium entry and transmitter release at voltage-clamped nerve terminals of squid. 163

BAJD T. *see* ANDREWS B.J., BAJD T. & BAXENDALE R.H. Cutaneous electrical stimulation and reductions in spinal spasticity in man. (PC) 86*P*

BALFOUR D.J.K. & VALE A.L. Effects of nicotine on the habituation of rats to an elevated X-maze. (C) 34*P*

BARBUR J.L., FINDLAY J.M. & FORSYTH P.M. Pattern of saccadic eye-movement responses associated with midbrain projections in human vision. (C) 38*P*

BARRETT G., NESHIGE R. & SHIBASAKI H. Cortical potential shifts preceding voluntary self-paced finger extension in young, old and Parkinsonian subjects. (C) 40*P*

BAUDRY M. *see* ANDERSON E., BAUDRY M., LYNCH G. & MORRIS R.G.M. Selective impairment of learning and blockade of long-term potentiation in rats by an *N*-methyl-D-aspartate receptor antagonist, APV-5. (C) 31*P*

BAXENDALE R.H. *see* ANDREWS B.J., BAJD T. & BAXENDALE R.H. Cutaneous electrical stimulation and reductions in spinal spasticity in man. (PC) 86*P*

BAXENDALE R.H., FERRELL W.R. & WOOD L. Knee-joint distension and quadriceps maximal voluntary contraction in man. (PC) 100*P*

BENNETT J.A. & KIDD C. Potentiation by bicuculline of the reflex inhibition of sympathetic nerve activity in response to stimulation of carotid sinus baroreceptors and cardiac and pulmonary vagal receptors in the anaesthetized, decerebrate cat. (C) 50*P*

BIRKS R.I. Activation of acetylcholine synthesis in cat sympathetic ganglia: dependence on external choline and sodium-pump rate. With an Appendix by K. J. WORSLEY and R. I. BIRKS. 401

BLANC G. *see* ADRIEN J., BLANC G., BUISSERET P., FRÉGNAC Y., GARY-BOBO E., IMBERT M., TASSIN J.P. & TROTTER Y. Noradrenaline and functional plasticity in kitten visual cortex: a re-examination. 73

BLESSING W.W. & WILLOUGHBY J.O. Inhibiting the rabbit caudal ventrolateral medulla prevents baroreceptor-initiated secretion of vasopressin. 253

BLYTHE I.M., BROMLEY J.M., KENNARD C. & RUDDOCK K.H. Abnormal prolongation of visual sensations in a human subject. (C) 20*P*

BOARDMAN S.E. & LAVERACK M.S. Control of ventilatory rhythm in the northern octopus *Eledone cirrhosa* (Lamarck) (PC) 103*P*

BODOIA R.D. & DETWILER P.B. Patch-clamp recordings of the light-sensitive dark noise in retinal rods from the lizard and frog. 183

BOOTH D.A. & DUGGAN J.P. Hypothalamic obesity: normal satiety signals but permanent dysfunction of CNS control of gastric emptying. (C) 57*P*

BOYD C.A.R., GERARD E.M. & HOLLANDER D. The effect of pH on butyrate absorption kinetics in vascularly perfused anuran small intestine. (C) 59*P*

BRENNER H.R. & MICHEROLI R. On the neurotrophic control of acetylcholine receptors at frog end-plates reinnervated by the vagus nerve. 387

BROMLEY J.M. *see* BLYTHE I.M., BROMLEY J.M., KENNARD C. & RUDDOCK K.H. Abnormal prolongation of visual sensations in a human subject. (C) 20*P*

BRYANS Cathy, TIMNEY B. & WHITTLE Elizabeth J. The role of binocular competition in strabismic amblyopia in kittens. (C) 25*P*

BUISSERET P. *see* ADRIEN J., BLANC G., BUISSERET P., FRÉGNAC Y., GARY-BOBO E., IMBERT M., TASSIN J.P. & TROTTER Y. Noradrenaline and functional plasticity in kitten visual cortex: a re-examination. 73

BULL Judith S., GRUNDY D. & SCRATCHERD T. The effect of intraluminal tryptophan and phenylalanine on small intestinal motility in the conscious dog. 353

BURNS J.K. Serum tyrosine and phenylalanine levels in late human pregnancy and in relation to duration of labour. (C) 84*P*

CAINE A.C., LUMBERS Eugenie R. & REID I.A. The effects and interactions of angiotensin and vasopressin on the heart of unanaesthetized sheep. 1

CAMERON Elaine & SPURWAY N.C. Effects of foreign anions upon vascular responses of the isolated rabbit ear to pH change. (C) 45*P*

CAMM J.-P. & JOHNSTON I.A. Developmental changes in the differentiation of muscle fibres in the Antarctic teleost *Notothenia neglecta*. (PC) 98*P*

CARLSON C.G. & KRIEBEL M.E. Neostigmine increases the size of subunits composing the quantum of transmitter release at mouse neuromuscular junction. 489

CARTER D.A. & LIGHTMAN S.L. Selective cardiovascular and neuroendocrine effects of a κ-opioid agonist in the nucleus tractus solitarii of rats. 363

CASCO C. & MORGAN M.J. Detection of moving local density differences in dynamic random patterns by human observers. (C) 29*P*

CHALMERS J.H., MORRISON J.D., OGG A. & REILLY J. The effects of ageing on the human visual evoked response. (C) 22*P*

CHARLTON Milton P. *see* AUGUSTINE George J., CHARLTON Milton P. & SMITH Stephen J. Calcium entry into voltage-clamped presynaptic terminals of squid. 143

CHARLTON Milton P. *see* AUGUSTINE George J., CHARLTON Milton P. & SMITH Stephen J. Calcium entry and transmitter release at voltage-clamped nerve terminals of squid. 163

CHESNOY-MARCHAIS Dominique Kinetic properties and selectivity of calcium-permeable single channels in *Aplysia* neurones. 457

CHIPPERFIELD A.R., PART N.J. & Departmental Staff The combination of a BBC-B microcomputer network and microtext for teaching elementary physiology. (D) 9*P*

CHITTY A.J., HEAD A.S., JEEVES M.A., MILNER A.D., MISTLIN A.J., PERRETT D.I., POTTER D.D. & SMITH P.A.J. Visual cells selective for body movements: studies of directional tuning and sensitivity to body view. (C) 28*P*

CHITTY A.J., MISTLIN A.J. & PERRETT D.I. Somatosensory and associated visual properties of neurones in a polysensory region of macaque temporal cortex. (C) 30*P*

CHRISTIE D. & STEELE RUSSELL I. The role of the corpus callosum in recovery of function following unilateral anteromedial cortex damage in rat. (C) 37*P*

CLAUSEN T., RENNIE M.J. & WATT P.W. ^{86}Rubidium uptake in the perfused rat hindlimb; stimulation by insulin. (PC) 96*P*

COBB J.L.S. Physiological studies of the connection between the ectoneural and hyponeural nervous systems in an echinoderm, *Ophiura ophiura*. (C) 53*P*

COBB J.L.S., FRASER K. & HEITLER W.J. Comparative ultrastructure of identified electrical synapses in the crayfish. (PC) 87*P*

COLE J.D., PHILIP H.I. & SEDGWICK E.M. The effect of small unilateral frontoparietal cortical lesions on digit tremor in man. (C) 41*P*

COOTE J.H. & SUTER C. Excitatory actions of angiotensin II on sympathetic preganglionic neurones in the rat. (C) 49*P*

COTTRELL G.A. & GREEN K.A. Simulation of single ion-channel activity on the BBC-microcomputer. (D) 12*P*

COTTRELL G.A. & DUNBAR S.J. The lack of effect of 5-hydroxytryptamine on unitary calcium currents recorded from the Cl neurone of *Helix aspersa*. (C) 65*P*

COTTRELL G.A. & DAVIES N.W. Different action of FMRFamide analogues on identified *Helix* neurones. (C) 66*P*

CRAMB G. *see* AITON J.F., CRAMB G. & WOOD Rosamonde The use of transformed human lymphocytes to study cation transport and β-adrenoceptor function in manic depressive psychosis. (D) 4*P*

CRAMB G. *see* AITON J.F., CRAMB G. & WOOD Rosamonde Measurement of intracellular nucleotide content of primary and established cell cultures using reverse-phase ion-pair chromatography. (D) 5*P*

CRAMB G. Tissue-selective lysosomal accumulation of the beta-adrenergic antagonist, propranolol, in rabbit ventricular myocytes and cultured BC_3H_1 (mouse smooth muscle), HeLa (human carcinoma) and MDCK (dog kidney epithelium) cells. (C) 71*P*

CRAMB G. *see* AITON J.F. & CRAMB G. Atrial natriuretic factor stimulates cGMP production in rabbit ventricular myocytes. (PC) 101*P*

CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. The effects of halothane on the withdrawal response of *Lymnaea*. (D) 8*P*

CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. The action of halothane on central neurones of *Lymnaea stagnalis*. (C) 42*P*

CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. A method for the application of volatile anaesthetics to perfused isolated tissues. (PC) 89*P*

Departmental Staff *see* CHIPPERFIELD A.R., PART N.J. & Departmental Staff The combination of a BBC-B microcomputer network and microtext for teaching elementary physiology. (D) 9*P*

DACKE C.G. *see* ABRAMOVICH D.R., DACKE C.G., PAGE K.R., SWEIRY J.H. & YUDILEVICH D.L. Evidence for carrier-mediated uptake of calcium and choline at maternal and fetal sides of the perfused human placenta. (C) 60*P*

DACKE C.G. *see* ABRAMOVICH D.R., DACKE C.G., HUNTER C., PAGE K.R. & RENSHAW P. Bi-directional phosphate fluxes across the isolated dually perfused human placental lobule. (PC) 95*P*

DAVIES N.W. *see* COTTRELL G.A. & DAVIES N.W. Different action of FMRFamide analogues on identified *Helix* neurones. (C) 66*P*

DE WEERT C.M.M. *see* WADE N.J. & DE WEERT C.M.M. Adaptation effects in human binocular rivalry (C) 26*P*

DELOOF Sylvie & ROUSSEAU J.P. Neural control of electrical gastric activity in response to inflation of the antrum in the rabbit. 13

DETWILER P.B. *see* BODOIA R.D. & DETWILER P.B. Patch-clamp recordings of the light-sensitive dark noise in retinal rods from the lizard and frog. 183

DODWELL P.C. & FLANAGAN P.R. Threshold contrast elevation occurs for patterns generated by Lie transformation groups. (C) 16*P*

DONNE B. & GARRETT M. Reciprocal inhibition in control of walking in man. (C) 39*P*

DREW T. *see* ARMSTRONG D.M. & DREW T. Electromyographic responses evoked in muscles of the forelimb by intracortical stimulation in the cat. 309

DREW T. *see* ARMSTRONG D.M. & DREW T. Forelimb electromyographic responses to motor cortex stimulation during locomotion in the cat. 327

DUGGAN J.P. *see* BOOTH D.A. & DUGGAN J.P. Hypothalamic obesity: normal satiety signals but permanent dysfunction of CNS control of gastric emptying. (C) 57*P*

DUNBAR S.J. *see* COTTRELL G.A. & DUNBAR S.J. The lack of effect of 5-hydroxytryptamine on unitary calcium currents recorded from the Cl neurone of *Helix aspersa*. (C) 65*P*

DUNBAR S.J. & PITMAN R.M. Unitary currents recorded from the soma of identified cockroach neurones using the patch clamp technique. (PC) 88*P*

DUNN Caroline & ROSS Helen E. Gender, the menstrual cycle and visual contrast sensitivity. (C) 19*P*

DUTCH S. & PARKER D.M. Relative latencies for the perceived onset of sinusoidal gratings of different spatial frequency in man. (C) 23*P*

EASTWOOD J.C. & FLITNEY F.W. Laser spectroscopic studies of actin–myosin interaction in living frogs' muscles. (C) 76*P*

ELDER H.Y., MCEWAN JENKINSON D., MCWILLIAMS S.A. & WILSON S.M. Intracellular concentrations of sodium, phosphorus, chlorine and potassium in the ductal epithelium of unstimulated and active equine sweat glands. (C) 74*P*

ELITHORN A., LITTON C.D., SMITH A.F.N. & STAVROU A. Individual intervention studies and the assessment of treatment effects. (PC) 104*P*

ELZINGA G., HOWARTH J.V., WILSON M.G.A. & WOLEDGE R.C. Stable maintenance heat rate is related to maximum tetanic force in isolated fibres from frog tibialis anterior muscle near 0 C. (C) 77*P*

ELZINGA G. & LÄNNERGREN J. Differences in stable maintenance heat rate between single muscle fibres isolated from m. iliofibularis of *Xenopus laevis*. (C) 78*P*

FARQUHAR Ruth, LESLIE G.C. & PART N.J. The action of dantrolene sodium on tension and integrated electromyogram (e.m.g.) in the soleus muscle of the decerebrate rat. (C) 75*P*

FERRELL W.R. *see* BAXENDALE R.H., FERRELL W.R. & WOOD L. Knee-joint distension and quadriceps maximal voluntary contraction in man. (PC) 100*P*

FERSTER David & LINDSTRÖM Sivert Augmenting responses evoked in area 17 of the cat by intracortical axon collaterals of cortico-geniculate cells. 217

FERSTER David & LINDSTRÖM Sivert Synaptic excitation of neurones in area 17 of the cat by intracortical axon collaterals of cortico-geniculate cells. 233

FILE Sandra E. & PELLOW Sharon The relationship between the corticosterone response to stress and anxiety in the rat. (C) 33*P*

FINDLAY J.M. *see* BARBUR J.L., FINDLAY J.M. & FORSYTH P.M. Pattern of saccadic eye-movement responses associated with midbrain projections in human vision. (C) 38*P*

FLANAGAN P.R. *see* DODWELL P.C. & FLANAGAN P.R. Threshold contrast elevation occurs for patterns generated by Lie transformation groups. (C) 16*P*

FLINT D.J., KEEBLE Suzanne & KNIGHT C.H. Interactions between prolactin and placental lactogen in the control of mammogenesis in the pregnant mouse. (C) 83*P*

FLITNEY F.W. *see* EASTWOOD J.C. & FLITNEY F.W. Laser spectroscopic studies of actin–myosin interaction in living frogs' muscles. (C) 76*P*

FLITNEY F.W. & KENNOVIN G. Photochemical degradation of nitroprusside in relation to its negative inotropic action on frog heart. (C) 80*P*

FORSYTH P.M. *see* BARBUR J.L., FINDLAY J.M. & FORSYTH P.M. Pattern of saccadic eye-movement responses associated with midbrain projections in human vision. (C) 38*P*

FRASER K. *see* COBB J.L.S., FRASER K. & HEITLER W.J. Comparative ultrastructure of identified electrical synapses in the crayfish. (PC) 87*P*

FRÉGNAC Y. *see* ADRIEN J., BLANC G., BUISSERET P., FRÉGNAC Y., GARY-BOBO E., IMBERT M., TASSIN J.P. & TROTTER Y. Noradrenaline and functional plasticity in kitten visual cortex: a re-examination. 73

GANDEVIA S.C. & MCKENZIE D.K. Activation of the human diaphragm during maximal static efforts. 45

GARRETT M. *see* DONNE B. & GARRETT M. Reciprocal inhibition in control of walking in man. (C) 39*P*

GARY-BOBO E. *see* ADRIEN J., BLANC G., BUISSERET P., FRÉGNAC Y., GARY-BOBO E., IMBERT M., TASSIN J.P. & TROTTER Y. Noradrenaline and functional plasticity in kitten visual cortex: a re-examination. 73

GERARD E.M. *see* BOYD C.A.R., GERARD E.M. & HOLLANDER D. The effect of pH on butyrate absorption kinetics in vascularly perfused anuran small intestine. (C) 59*P*

GIRDLESTONE D. *see* CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. The effects of halothane on the withdrawal response of *Lymnaea*. (D) 8*P*

GIRDLESTONE D. *see* CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. The action of halothane on central neurones of *Lymnaea stagnalis*. (C) 42*P*

GIRDLESTONE D. *see* CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. A method for the application of volatile anaesthetics to perfused isolated tissues. (PC) 89*P*

GREEN K.A. Use of the BBC microcomputer as a digital storage oscilloscope. (D) 11*P*

GREEN K.A. *see* COTTRELL G.A. & GREEN K.A. Simulation of single ion-channel activity on the BBC-microcomputer. (D) 12*P*

GRUNDY D. *see* BULL Judith S., GRUNDY D. & SCRATCHERD T. The effect of intraluminal tryptophan and phenylalanine on small intestinal motility in the conscious dog. 353

GRUNDY D. & SCRATCHERD T. The effect of surgical anaesthesia on gastric motility in the ferret. (C) 56*P*

HAMMOND G.R., MILLER S. & POTTS M. Jean The effects of muscle vibration on repetitive arm movements in hemiplegic stroke patients. (PC) 104*P*

HAMMOND G.R., MILLER S. & POTTS M. Jean A comparison of the performance of a simple motor task with activities of daily living in hemiplegic stroke patients. (PC) 104*P*

HASSAN A.A.M., HICKS M.H., LINDEN R.J., MARY D.A.S.G. & WALTERS G.E. Effect of distension of the urinary bladder on efferent cardiac sympathetic nerves in the dog. (C) 48*P*

HATCHER D.D. & LUFF A.R. Force–velocity properties of fast-twitch and slow-twitch muscles of the kitten. 377

HEAD A.S. *see* CHITTY A.J., HEAD A.S., JEEVES M.A., MILNER A.D., MISTLIN A.J., PERRETT D.I., POTTER D.D. & SMITH P.A.J. Visual cells selective for body movements: studies of directional tuning and sensitivity to body view. (C) 28*P*

HEELEY D.W. Retinal image sampling as a limiting process in the visual discrimination of sine-wave gratings in man. (C) 17*P*

HEITLER W.J. *see* COBB J.L.S., FRASER K. & HEITLER W.J. Comparative ultrastructure of identified electrical synapses in the crayfish. (PC) 87*P*

HICKS M.H. *see* HASSAN A.A.M., HICKS M.H., LINDEN R.J., MARY D.A.S.G. & WALTERS G.E. Effect of distension of the urinary bladder on efferent cardiac sympathetic nerves in the dog. (C) 48*P*

HICKS M.N., LINDEN R.J., MARY D.A.S.G., PEARSON M.J. & WALTERS G.E. Left atrial receptors and plasma renin activity in the dog. (C) 47*P*

HILLS Judith M., JESSEN K.R. & SAFFREY M. Jill Immunohistochemical evidence for GABAergic neurones in the enteric nervous system of the rat and guinea-pig. (C) 55*P*

HOLLANDER D. *see* BOYD C.A.R., GERARD E.M. & HOLLANDER D. The effect of pH on butyrate absorption kinetics in vascularly perfused anuran small intestine. (C) 59*P*

HOSOI Shigeru & SLAYMAN Clifford L. Membrane voltage, resistance, and channel switching in isolated mouse fibroblasts (L cells): a patch-electrode analysis. 267

HOWARTH J.V. *see* ELZINGA G., HOWARTH J.V., WILSON M.G.A. & WOLEDGE R.C. Stable maintenance heat rate is related to maximum tetanic force in isolated fibres from frog tibialis anterior muscle near 0 C. (C) 77*P*

HUGHES G.M. & TUPPEN A. Microcomputer analysis of coupling and phase relationships between the cardiac and ventilatory rhythms of fishes. (D) 14*P*

HUNDAL H.S., MACGILL J.N., RENNIE M.J. & WATT P.W. Inhibition of unidirectional sugar transport into perfused rat skeletal muscle by the fatty acid oleate. (PC) 97*P*

HUNTER C. *see* ABRAMOVICH D.R., DACKE C.G., HUNTER C., PAGE K.R. & RENSHAW P. Bi-directional phosphate fluxes across the isolated dually perfused human placental lobule. (PC) 95*P*

HUNTER M.J. The BBC microcomputer programmed as an e.c.g. display monitor. (D) 13*P*

HUTTON Therese *see* ANDREWS Karen L., HUTTON Therese & SINGH J. Serum increases contractile force in the isolated frog ventricle and the rat heart. (C) 81*P*

IGHOROJE Ahbor D. & SPURWAY N.C. How does vascular muscle in the isolated rabbit ear adapt its tone after alkaline or acid loads? (C) 46*P*

IMBERT M. *see* ADRIEN J., BLANC G., BUISSERET P., FRÉGNAC Y., GARY-BOBO E., IMBERT M., TASSIN J.P. & TROTTER Y. Noradrenaline and functional plasticity in kitten visual cortex: a re-examination. 73

ITO Yushi & KIMOTO Yasusuke The neural and non-neural mechanisms involved in urethral activity in rabbits. 57

JACOBS N.A. *see* ALVAREZ Sarah L. & JACOBS N.A. Recovery of visual function in retrobulbar neuritis with drink. (C) 27*P*

JEEVES M.A. *see* CHITTY A.J., HEAD A.S., JEEVES M.A., MILNER A.D., MISTLIN A.J., PERRETT D.I., POTTER D.D. & SMITH P.A.J. Visual cells selective for body movements: studies of directional tuning and sensitivity to body view. (C) 28*P*

JESSEN K.R. *see* HILLS Judith M., JESSEN K.R. & SAFFREY M. Jill Immunohistochemical evidence for GABAergic neurones in the enteric nervous system of the rat and guinea-pig. (C) 55*P*

JOHNSTON I.A. *see* ALTRINGHAM J.D. & JOHNSTON I.A. Adenosine triphosphatase measurements in skinned muscle fibres from fish using high-performance liquid chromatography. (D) 6*P*

JOHNSTON I.A. & MUTUNGI G. Effects of temperature and pH on the contractile properties of skinned fibres isolated from the iliofibularis muscle of the freshwater turtle *Pseudemys scripta elegans*. (C) 79*P*

JOHNSTON I.A. *see* CAMM J.-P. & JOHNSTON I.A. Developmental changes in the differentiation of muscle fibres in the Antarctic teleost *Notothenia neglecta*. (PC) 98*P*

JONES Allan W. *see* AARONSON Philip I. & JONES Allan W. Calcium regulation of potassium fluxes in rabbit aorta during activation by noradrenaline or high potassium medium. 27

JONES Christopher J. & KEALEY Terence Electrophysiological studies on isolated human eccrine sweat glands. (C) 73*P*

KAY C.D. & MORRISON J.D. The effects of pupil size and defocus on contrast sensitivity in man. (C) 15*P*

KEALEY Terence *see* JONES Christopher J. & KEALEY Terence Electrophysiological studies on isolated human eccrine sweat glands. (C) 73*P*

KEEBLE Suzanne *see* FLINT D.J., KEEBLE Suzanne & KNIGHT C.H. Interactions between prolactin and placental lactogen in the control of mammogenesis in the pregnant mouse. (C) 83*P*

KENNARD C. *see* BLYTHE I.M., BROMLEY J.M., KENNARD C. & RUDDOCK K.H. Abnormal prolongation of visual sensations in a human subject. (C) 20*P*

KENNOVIN G. *see* FLITNEY F.W. & KENNOVIN G. Photochemical degradation of nitroprusside in relation to its negative inotropic action on frog heart. (C) 80*P*

KIDD C. *see* BENNETT J.A. & KIDD C. Potentiation by bicuculline of the reflex inhibition of sympathetic nerve activity in response to stimulation of carotid sinus baroreceptors and cardiac and pulmonary vagal receptors in the anaesthetized, decerebrate cat. (C) 50*P*

KIMOTO Yasusuke *see* ITO Yushi & KIMOTO Yasusuke The neural and non-neural mechanisms involved in urethral activity in rabbits. 57

KNIGHT C.H. *see* FLINT D.J., KEEBLE Suzanne & KNIGHT C.H. Interactions between prolactin and placental lactogen in the control of mammogenesis in the pregnant mouse. (C) 83*P*

KORT Arthur A., LAKATTA Edward G., MARBAN Eduardo, STERN Michael D. & WIER W. Gil Fluctuations in intracellular calcium concentration and their effect on tonic tension in canine cardiac Purkinje fibres. 291

KRIEBEL M.E. *see* CARLSON C.G. & KRIEBEL M.E. Neostigmine increases the size of subunits composing the quantum of transmitter release at mouse neuromuscular junction. 489

KÜGELGEN I.v. & STARKE K. Noradrenaline and adenosine triphosphate as co-transmitters of neurogenic vasoconstriction in rabbit mesenteric artery 435

LABURN Helen, MITCHELL D., MITCHELL G. & SAFFY K. Brain temperature in hyperthermic sheep during upper respiratory bypass. (C) 52*P*

LAKATTA Edward G. *see* KORT Arthur A., LAKATTA Edward G., MARBAN Eduardo, STERN Michael D. & WIER W. Gil Fluctuations in intracellular calcium concentration and their effect on tonic tension in canine cardiac Purkinje fibres. 291

LAKIE M., WALSH E.G. & WRIGHT G. Changes in the resonant frequency of a limb induced by artificial changes of stiffness – a feedback method for measuring muscle tension and limb inertia in man. (D) 7*P*

LAMB J.F. & TENANG E.M. A method for measuring cellular and nuclear morphological parameters. (D) 2*P*

LAMB J.F. & OWLER D. Isolation of HeLa plasma membranes on microcarrier beads. (D) 3*P*

LAMB J.F. A reference filing system based on a commercial database (dBASE 11). (D) 14*P*

LAMB J.F., OGDEN Pat & SINGH J. The serum stimulation of ion fluxes in cultured mouse (3T3) and human (HeLa) cells is not due to an increased sodium entry. (C) 70*P*

LAMB J.F. *see* ALGHARABLY N. & LAMB J.F. The subcellular localisation of, and the effect of chloroquine on, ouabain and digoxin after binding to HeLa cells. (PC) 93*P*

LANGRIDGE-SMITH J.E. Na absorption and Cl secretion in bovine tracheal epithelium may take place in different cells. (C) 61*P*

LANGRIDGE-SMITH J.E. Problems associated with the use of detergents in assays of Na, K-ATPase activity in membrane vesicle preparations. (C) 69*P*

LÄNNERGREN J. *see* ELZINGA G. & LANNERGREN J. Differences in stable maintenance heat rate between single muscle fibres isolated from m. iliofibularis of *Xenopus laevis*. (C) 78*P*

LAVERACK M.S. *see* BOARDMAN S.E. & LAVERACK M.S. Control of ventilatory rhythm in the northern octopus *Eledone cirrhosa* (Lamarck) (PC) 103*P*

LEA T.J. Effects of protonophores and of changes in solution pH at constant pCa on calcium release from the sarcoplasmic reticulum (SR) of barnacle muscle. (C) 63*P*

LEE D. & OWEN B. Head–eye co-ordination in a brain-damaged infant. (PC) 104*P*

LESLIE G.C. *see* FARQUHAR Ruth, LESLIE G.C. & PART N.J. The action of dantrolene sodium on tension and integrated electromyogram (e.m.g.) in the soleus muscle of the decerebrate rat. (C) 75*P*

LIGHTMAN S.L. *see* CARTER D.A. & LIGHTMAN S.L. Selective cardiovascular and neuroendocrine effects of a κ-opioid agonist in the nucleus tractus solitarii of rats. 363

LINDEN R.J. *see* HICKS M.N., LINDEN R.J., MARY D.A.S.G., PEARSON M.J. & WALTERS G.E. Left atrial receptors and plasma renin activity in the dog. (C) 47*P*

LINDEN R.J. *see* HASSAN A.A.M., HICKS M.H., LINDEN R.J., MARY D.A.S.G. & WALTERS G.E. Effect of distension of the urinary bladder on efferent cardiac sympathetic nerves in the dog. (C) 48*P*

LINDSTRÖM Sivert *see* FERSTER David & LINDSTRÖM Sivert Augmenting responses evoked in area 17 of the cat by intracortical axon collaterals of cortico-geniculate cells. 217

LINDSTRÖM Sivert *see* FERSTER David & LINDSTRÖM Sivert Synaptic excitation of neurones in area 17 of the cat by intracortical axon collaterals of cortico-geniculate cells. 233

LINES C.R., MILNER A.D. & RUGG M.D. Modulation of human visual evoked potentials by selective attention. (C) 21*P*

LITTON C.D. *see* ELITHORN A., LITTON C.D., SMITH A.F.N. & STAVROU A. Individual intervention studies and the assessment of treatment effects. (PC) 104*P*

LUFF A.R. *see* HATCHER D.D. & LUFF A.R. Force–velocity properties of fast-twitch and slow-twitch muscles of the kitten. 377

LUKASIEWICZ Peter D. & MCREYNOLDS John S. Synaptic transmission at *N*-methyl-D-aspartate receptors in the proximal retina of the mudpuppy. 99

LUMBERS Eugenie R. *see* CAINE A.C., LUMBERS Eugenie R. & REID I.A. The effects and interactions of angiotensin and vasopressin on the heart of unanaesthetized sheep. 1

LYNCH G. *see* ANDERSON E., BAUDRY M., LYNCH G. & MORRIS R.G.M. Selective impairment of learning and blockade of long-term potentiation in rats by an *N*-methyl-D-aspartate receptor antagonist, APV-5. (C) 31*P*

MCBURNEY R.N., SMITH S.M. & ZOREC R. Extracellular caesium ions (Cs^+) activate a chloride (Cl^-) permeability in rat cultured spinal cord neurones. (C) 68*P*

MCCALDIN B. & TENANG E.M. Serum and culture density related alterations in the levels of 3′,5′-cAMP, rotenone-insensitive NADH ferricyanide reductase and monoamine oxidase in mouse fibroblasts grown in culture. (PC) 94*P*

McEwan Jenkinson D. *see* Elder H.Y., McEwan Jenkinson D., McWilliams S.A. & Wilson S.M. Intracellular concentrations of sodium, phosphorus, chlorine and potassium in the ductal epithelium of unstimulated and active equine sweat glands. (C) 74*P*

MacGill J.N. *see* Hundal H.S., MacGill J.N., Rennie M.J. & Watt P.W. Inhibition of unidirectional sugar transport into perfused rat skeletal muscle by the fatty acid oleate. (PC) 97*P*

MacKay D.M., MacKay Valerie & Rulon M.J. Local CNVs for different phases of a cognitive task in man. (C) 24*P*

MacKay Valerie *see* MacKay D.M., MacKay Valerie & Rulon M.J. Local CNVs for different phases of a cognitive task in man. (C) 24*P*

McKenzie D.K. *see* Gandevia S.C. & McKenzie D.K. Activation of the human diaphragm during maximal static efforts. 45

MacLeod N.K. *see* Arbuthnott G.W., MacLeod N.K. & Rutherford A. The rat cortico-striatal pathway *in-vitro*. (PC) 102*P*

Macphail E.M. & Reilly S. Double dissociation of learning functions within the avian hyperstriatal complex. (C) 32*P*

McReynolds John S. *see* Lukasiewicz Peter D. & McReynolds John S. Synaptic transmission at *N*-methyl-D-aspartate receptors in the proximal retina of the mudpuppy. 99

McWilliams S.A. *see* Elder H.Y., McEwan Jenkinson D., McWilliams S.A. & Wilson S.M. Intracellular concentrations of sodium, phosphorus, chlorine and potassium in the ductal epithelium of unstimulated and active equine sweat glands. (C) 74*P*

Marban Eduardo *see* Kort Arthur A., Lakatta Edward G., Marban Eduardo, Stern Michael D. & Wier W. Gil Fluctuations in intracellular calcium concentration and their effect on tonic tension in canine cardiac Purkinje fibres. 291

Marty Alain & Neher Erwin Potassium channels in cultured bovine adrenal chromaffin cells. 117

Mary D.A.S.G. *see* Hicks M.N., Linden R.J., Mary D.A.S.G., Pearson M.J. & Walters G.E. Left atrial receptors and plasma renin activity in the dog. (C) 47*P*

Mary D.A.S.G. *see* Hassan A.A.M., Hicks M.H., Linden R.J., Mary D.A.S.G. & Walters G.E. Effect of distension of the urinary bladder on efferent cardiac sympathetic nerves in the dog. (C) 48*P*

Micheroli R. *see* Brenner H.R. & Micheroli R. On the neurotrophic control of acetylcholine receptors at frog end-plates reinnervated by the vagus nerve. 387

Miller S. *see* Hammond G.R., Miller S. & Potts M. Jean The effects of muscle vibration on repetitive arm movements in hemiplegic stroke patients. (PC) 104*P*

Miller S. *see* Hammond G.R., Miller S. & Potts M. Jean A comparison of the performance of a simple motor task with activities of daily living in hemiplegic stroke patients. (PC) 104*P*

Milner A.D. *see* Lines C.R., Milner A.D. & Rugg M.D. Modulation of human visual evoked potentials by selective attention. (C) 21*P*

Milner A.D. *see* Chitty A.J., Head A.S., Jeeves M.A., Milner A.D., Mistlin A.J., Perrett D.I., Potter D.D. & Smith P.A.J. Visual cells selective for body movements: studies of directional tuning and sensitivity to body view. (C) 28*P*

Mistlin A.J. *see* Chitty A.J., Head A.S., Jeeves M.A., Milner A.D., Mistlin A.J., Perrett D.I., Potter D.D. & Smith P.A.J. Visual cells selective for body movements: studies of directional tuning and sensitivity to body view. (C) 28*P*

Mistlin A.J. *see* Chitty A.J., Mistlin A.J. & Perrett D.I. Somatosensory and associated visual properties of neurones in a polysensory region of macaque temporal cortex. (C) 30*P*

Mitchell D. *see* Laburn Helen, Mitchell D., Mitchell G. & Saffy K. Brain temperature in hyperthermic sheep during upper respiratory bypass. (C) 52*P*

Mitchell G. *see* Laburn Helen, Mitchell D., Mitchell G. & Saffy K. Brain temperature in hyperthermic sheep during upper respiratory bypass. (C) 52*P*

Morgan M. On the detection of bumps and local contrast. (C) 85*P*

Morgan M.J. *see* Casco C. & Morgan M.J. Detection of moving local density differences in dynamic random patterns by human observers. (C) 29*P*

Morris R.G.M. *see* Anderson E., Baudry M., Lynch G. & Morris R.G.M. Selective impairment of learning and blockade of long-term potentiation in rats by an *N*-methyl-D-aspartate receptor antagonist, APV-5. (C) 31*P*

Morrison J.D. *see* Kay C.D. & Morrison J.D. The effects of pupil size and defocus on contrast sensitivity in man. (C) 15*P*

MORRISON J.D. *see* CHALMERS J.H., MORRISON J.D., OGG A. & REILLY J. The effects of ageing on the human visual evoked response. (C) 22*P*

MUSCHOLL E., RACKÉ K. & TRAUT Agathe Gadolinium ions inhibit exocytotic vasopressin release from the rat neurohypophysis. 419

MUTUNGI G. *see* JOHNSTON I.A. & MUTUNGI G. Effects of temperature and pH on the contractile properties of skinned fibres isolated from the iliofibularis muscle of the freshwater turtle *Pseudemys scripta elegans*. (C) 79*P*

NAYLOR G. *see* AITON J.F., NAYLOR G. & WOOD Rosamonde Effects of chronic vanadate treatment on intracellular ion contents, cation fluxes and ouabain binding in cultured HeLa cells. (PC) 91*P*

NEHER Erwin *see* MARTY Alain & NEHER Erwin Potassium channels in cultured bovine adrenal chromaffin cells. 117

NESHIGE R. *see* BARRETT G., NESHIGE R. & SHIBASAKI H. Cortical potential shifts preceding voluntary self-paced finger extension in young, old and Parkinsonian subjects. (C) 40*P*

NEWTON J.P. & YEMM R. Changes in contractile properties of the first dorsal interosseous muscle with age in man. (PC) 99*P*

NICOL C.J.M. A microcomputer program to determine the composition of solutions containing multiple metal ions and complexing ligands. (D) 10*P*

OGDEN Pat *see* LAMB J.F., OGDEN Pat & SINGH J. The serum stimulation of ion fluxes in cultured mouse (3T3) and human (HeLa) cells is not due to an increased sodium entry. (C) 70*P*

OGG A. *see* CHALMERS J.H., MORRISON J.D., OGG A. & REILLY J. The effects of ageing on the human visual evoked response. (C) 22*P*

OSWALDO-CRUZ E., PICANÇO-DINIZ C.W. & SILVEIRA L.C.L. Physiological optics of some Amazon rodents with contrasting life style. (C) 18*P*

OWEN B. *see* LEE D. & OWEN B. Head–eye co-ordination in a brain-damaged infant. (PC) 104*P*

OWLER D. *see* LAMB J.F. & OWLER D. Isolation of HeLa plasma membranes on microcarrier beads. (D) 3*P*

PAGE K.R. *see* ABRAMOVICH D.R., DACKE C.G., PAGE K.R., SWEIRY J.H. & YUDILEVICH D.L. Evidence for carrier-mediated uptake of calcium and choline at maternal and fetal sides of the perfused human placenta. (C) 60*P*

PAGE K.R. *see* ABRAMOVICH D.R., DACKE C.G., HUNTER C., PAGE K.R. & RENSHAW P. Bi-directional phosphate fluxes across the isolated dually perfused human placental lobule. (PC) 95*P*

PARKER D.M. *see* DUTCH S. & PARKER D.M. Relative latencies for the perceived onset of sinusoidal gratings of different spatial frequency in man. (C) 23*P*

PART N.J. *see* CHIPPERFIELD A.R., PART N.J. & Departmental Staff The combination of a BBC-B microcomputer network and microtext for teaching elementary physiology. (D) 9*P*

PART N.J. *see* FARQUHAR Ruth, LESLIE G.C. & PART N.J. The action of dantrolene sodium on tension and integrated electromyogram (e.m.g.) in the soleus muscle of the decerebrate rat. (C) 75*P*

PATERSON Anna T. & VICKERS Colin Reactions to hot-plate pain: effects of sex, strain, light cycle and social factors. (C) 35*P*

PEARSON M.J. *see* HICKS M.N., LINDEN R.J., MARY D.A.S.G., PEARSON M.J. & WALTERS G.E. Left atrial receptors and plasma renin activity in the dog. (C) 47*P*

PELLOW Sharon *see* FILE Sandra E. & PELLOW Sharon The relationship between the corticosterone response to stress and anxiety in the rat. (C) 33*P*

PERRETT D.I. *see* CHITTY A.J., HEAD A.S., JEEVES M.A., MILNER A.D., MISTLIN A.J., PERRETT D.I., POTTER D.D. & SMITH P.A.J. Visual cells selective for body movements: studies of directional tuning and sensitivity to body view. (C) 28*P*

PERRETT D.I. *see* CHITTY A.J., MISTLIN A.J. & PERRETT D.I. Somatosensory and associated visual properties of neurones in a polysensory region of macaque temporal cortex. (C) 30*P*

PHILIP H.I. *see* COLE J.D., PHILIP H.I. & SEDGWICK E.M. The effect of small unilateral frontoparietal cortical lesions on digit tremor in man. (C) 41*P*

PICANÇO-DINIZ C.W. *see* OSWALDO-CRUZ E., PICANÇO-DINIZ C.W. & SILVEIRA L.C.L. Physiological optics of some Amazon rodents with contrasting life style. (C) 18*P*

PITMAN R.M. *see* DUNBAR S.J. & PITMAN R.M. Unitary currents recorded from the soma of identified cockroach neurones using the patch clamp technique. (PC) 88*P*

POCOCK G. & SIMONS T.J.B. Pb movements through Ca channels in bovine adrenal medullary cells. (C) 67*P*

POCOCK G. Low doses of ethanol inhibit the sodium pump of isolated rat hepatocytes. (PC) 92*P*

POTTER D.D. *see* CHITTY A.J., HEAD A.S., JEEVES M.A., MILNER A.D., MISTLIN A.J., PERRETT D.I., POTTER D.D. & SMITH P.A.J. Visual cells selective for body movements: studies of directional tuning and sensitivity to body view. (C) 28*P*

POTTS M. Jean *see* HAMMOND G.R., MILLER S. & POTTS M. Jean The effects of muscle vibration on repetitive arm movements in hemiplegic stroke patients. (PC) 104*P*

POTTS M. Jean *see* HAMMOND G.R., MILLER S. & POTTS M. Jean A comparison of the performance of a simple motor task with activities of daily living in hemiplegic stroke patients. (PC) 104*P*

POUCHER Christina M. & TOBIN G. Energy balance in food-restricted rats treated with progesterone. (C) 54*P*

PRITCHARD K. *see* ASHLEY C.C. & PRITCHARD K. Free calcium changes indicated by the fluorescent dye, fura-2, in smooth muscle cells isolated from guinea-pig taenia coli. (PC) 90*P*

RACKÉ K. *see* MUSCHOLL E., RACKÉ K. & TRAUT Agathe Gadolinium ions inhibit exocytotic vasopressin release from the rat neurohypophysis. 419

REES H. & ROBERTS M.H.T. Long-duration antinociception from stimulation of the pretectal nucleus in the rat. (C) 36*P*

REID I.A. *see* CAINE A.C., LUMBERS Eugenie R. & REID I.A. The effects and interactions of angiotensin and vasopressin on the heart of unanaesthetized sheep. 1

REILLY J. *see* CHALMERS J.H., MORRISON J.D., OGG A. & REILLY J. The effects of ageing on the human visual evoked response. (C) 22*P*

REILLY S. *see* MACPHAIL E.M. & REILLY S. Double dissociation of learning functions within the avian hyperstriatal complex. (C) 32*P*

RENNIE M.J. *see* CLAUSEN T., RENNIE M.J. & WATT P.W. ^{86}Rubidium uptake in the perfused rat hindlimb; stimulation by insulin. (PC) 96*P*

RENNIE M.J. *see* HUNDAL H.S., MACGILL J.N., RENNIE M.J. & WATT P.W. Inhibition of unidirectional sugar transport into perfused rat skeletal muscle by the fatty acid oleate. (PC) 97*P*

RENSHAW P. *see* ABRAMOVICH D.R., DACKE C.G., HUNTER C., PAGE K.R. & RENSHAW P. Bi-directional phosphate fluxes across the isolated dually perfused human placental lobule. (PC) 95*P*

ROBERTS M.H.T. *see* REES H. & ROBERTS M.H.T. Long-duration antinociception from stimulation of the pretectal nucleus in the rat. (C) 36*P*

ROSS Helen E. *see* DUNN Caroline & ROSS Helen E. Gender, the menstrual cycle and visual contrast sensitivity. (C) 19*P*

ROUSSEAU J.P. *see* DELOOF Sylvie & ROUSSEAU J.P. Neural control of electrical gastric activity in response to inflation of the antrum in the rabbit. 13

RUDDOCK K.H. *see* BLYTHE I.M., BROMLEY J.M., KENNARD C. & RUDDOCK K.H. Abnormal prolongation of visual sensations in a human subject. (C) 20*P*

RUGG E.L., SIMMONS N.L. & TIVEY D.R. An investigation of [^{3}H]bumetanide uptake in intact cultured renal epithelial cells of canine origin (MDCK). (C) 72*P*

RUGG M.D. *see* LINES C.R., MILNER A.D. & RUGG M.D. Modulation of human visual evoked potentials by selective attention. (C) 21*P*

RULON M.J. *see* MACKAY D.M., MACKAY Valerie & RULON M.J. Local CNVs for different phases of a cognitive task in man. (C) 24*P*

RUTHERFORD A. *see* ARBUTHNOTT G.W., MACLEOD N.K. & RUTHERFORD A. The rat cortico-striatal pathway *in-vitro*. (PC) 102*P*

SAFFREY M. Jill *see* HILLS Judith M., JESSEN K.R. & SAFFREY M. Jill Immunohistochemical evidence for GABAergic neurones in the enteric nervous system of the rat and guinea-pig. (C) 55*P*

SAFFY K. *see* LABURN Helen, MITCHELL D., MITCHELL G. & SAFFY K. Brain temperature in hyperthermic sheep during upper respiratory bypass. (C) 52*P*

SCRATCHERD T. *see* BULL Judith S., GRUNDY D. & SCRATCHERD T. The effect of intraluminal tryptophan and phenylalanine on small intestinal motility in the conscious dog. 353

SCRATCHERD T. *see* GRUNDY D. & SCRATCHERD T. The effect of surgical anaesthesia on gastric motility in the ferret. (C) 56*P*

SEDGWICK E.M. *see* COLE J.D., PHILIP H.I. & SEDGWICK E.M. The effect of small unilateral frontoparietal cortical lesions on digit tremor in man. (C) 41*P*

SEPÚLVEDA F.V. Uptake of Ca^{2+} by isolated rabbit small intestinal cells with highly permeable plasma membrane. (C) 58*P*

SHIBASAKI H. *see* BARRETT G., NESHIGE R. & SHIBASAKI H. Cortical potential shifts preceding voluntary self-paced finger extension in young, old and Parkinsonian subjects. (C) 40*P*

SILVEIRA L.C.L. *see* OSWALDO-CRUZ E., PICANÇO-DINIZ C.W. & SILVEIRA L.C.L. Physiological optics of some Amazon rodents with contrasting life style. (C) 18*P*

SIMMONS N.L. *see* RUGG E.L., SIMMONS N.L. & TIVEY D.R. An investigation of [^{3}H]bumetanide uptake in intact cultured renal epithelial cells of canine origin (MDCK). (C) 72*P*

SIMONS T.J.B. *see* POCOCK G. & SIMONS T.J.B. Pb movements through Ca channels in bovine adrenal medullary cells. (C) 67*P*

SIMS Stephen M., SINGER Joshua J. & WALSH JR John V. Cholinergic agonists suppress a potassium current in freshly dissociated smooth muscle cells of the toad. 503

SINGER Joshua J. *see* SIMS Stephen M., SINGER Joshua J. & WALSH JR John V. Cholinergic agonists suppress a potassium current in freshly dissociated smooth muscle cells of the toad. 503

SINGH J. *see* LAMB J.F., OGDEN Pat & SINGH J. The serum stimulation of ion fluxes in cultured mouse (3T3) and human (HeLa) cells is not due to an increased sodium entry. (C) 70*P*

SINGH J. *see* ANDREWS Karen L., HUTTON Therese & SINGH J. Serum increases contractile force in the isolated frog ventricle and the rat heart. (C) 81*P*

SLAYMAN Clifford L. *see* HOSOI Shigeru & SLAYMAN Clifford L. Membrane voltage, resistance, and channel switching in isolated mouse fibroblasts (L cells): a patch-electrode analysis. 267

SMITH A.F.N. *see* ELITHORN A., LITTON C.D., SMITH A.F.N. & STAVROU A. Individual intervention studies and the assessment of treatment effects. (PC) 104*P*

SMITH P.A.J. *see* CHITTY A.J., HEAD A.S., JEEVES M.A., MILNER A.D., MISTLIN A.J., PERRETT D.I., POTTER D.D. & SMITH P.A.J. Visual cells selective for body movements: studies of directional tuning and sensitivity to body view. (C) 28*P*

SMITH S.M. *see* MCBURNEY R.N., SMITH S.M. & ZOREC R. Extracellular caesium ions (Cs^+) activate a chloride (Cl^-) permeability in rat cultured spinal cord neurones. (C) 68*P*

SMITH Stephen J. *see* AUGUSTINE George J., CHARLTON Milton P. & SMITH Stephen J. Calcium entry into voltage-clamped presynaptic terminals of squid. 143

SMITH Stephen J. *see* AUGUSTINE George J., CHARLTON Milton P. & SMITH Stephen J. Calcium entry and transmitter release at voltage-clamped nerve terminals of squid. 163

SPURWAY N.C. *see* CAMERON Elaine & SPURWAY N.C. Effects of foreign anions upon vascular responses of the isolated rabbit ear to pH change. (C) 45*P*

SPURWAY N.C. *see* IGHOROJE Ahbor D. & SPURWAY N.C. How does vascular muscle in the isolated rabbit ear adapt its tone after alkaline or acid loads? (C) 46*P*

STARKE K. *see* KÜGELGEN I.V. & STARKE K. Noradrenaline and adenosine triphosphate as co-transmitters of neurogenic vasoconstriction in rabbit mesenteric artery 435

STAVROU A. *see* ELITHORN A., LITTON C.D., SMITH A.F.N. & STAVROU A. Individual intervention studies and the assessment of treatment effects. (PC) 104*P*

STEELE RUSSELL I. *see* CHRISTIE D. & STEELE RUSSELL I. The role of the corpus callosum in recovery of function following unilateral anteromedial cortex damage in rat. (C) 37*P*

STERN Michael D. *see* KORT Arthur A., LAKATTA Edward G., MARBAN Eduardo, STERN Michael D. & WIER W. Gil Fluctuations in intracellular calcium concentration and their effect on tonic tension in canine cardiac Purkinje fibres. 291

SUTER C. *see* COOTE J.H. & SUTER C. Excitatory actions of angiotensin II on sympathetic preganglionic neurones in the rat. (C) 49*P*

SWANSON G.J. & VRBOVÁ G. Effect of protease inhibitors on mature endplates in rat muscle. (C) 82*P*

SWEIRY J.H. *see* ABRAMOVICH D.R., DACKE C.G., PAGE K.R., SWEIRY J.H. & YUDILEVICH D.L. Evidence for carrier-mediated uptake of calcium and choline at maternal and fetal sides of the perfused human placenta. (C) 60*P*

TASSIN J.P. *see* ADRIEN J., BLANC G., BUISSERET P., FRÉGNAC Y., GARY-BOBO E., IMBERT M., TASSIN J.P. & TROTTER Y. Noradrenaline and functional plasticity in kitten visual cortex: a re-examination. 73

TAYLOR D.E.M. & TUKMACKI E.S.A. Effect of blood gases on input resistance of the canine cerebral and cephalic circulation. (C) 44*P*

TENANG E.M. *see* LAMB J.F. & TENANG E.M. A method for measuring cellular and nuclear morphological parameters. (D) 2*P*

TENANG E.M. *see* MCCALDIN B. & TENANG E.M. Serum and culture density related alterations in the levels of 3′,5′-cAMP, rotenone-insensitive NADH ferricyanide reductase and monoamine oxidase in mouse fibroblasts grown in culture. (PC) 94*P*

THOMPSON J. *see* AITKEN J.C. & THOMPSON J. Maximum functional heart rate during exercise and its prediction from the respiratory exchange ratio. (C) 51*P*

TIMMERMAN M.P. *see* ASHLEY C.C. & TIMMERMAN M.P. Use of the new fluorescent Ca^{2+} indicator fura-2 to detect Ca^{2+} concentration changes in electrically stimulated *Balanus* muscle fibres. (C) 64*P*

TIMNEY B. *see* BRYANS Cathy, TIMNEY B. & WHITTLE Elizabeth J. The role of binocular competition in strabismic amblyopia in kittens. (C) 25*P*

TIVEY D.R. *see* RUGG E.L., SIMMONS N.L. & TIVEY D.R. An investigation of [^{3}H]bumetanide uptake in intact cultured renal epithelial cells of canine origin (MDCK). (C) 72*P*

TOBIN G. *see* POUCHER Christina M. & TOBIN G. Energy balance in food-restricted rats treated with progesterone. (C) 54*P*

TRAUT Agathe *see* MUSCHOLL E., RACKÉ K. & TRAUT Agathe Gadolinium ions inhibit exocytotic vasopressin release from the rat neurohypophysis. 419

TROTTER Y. *see* ADRIEN J., BLANC G., BUISSERET P., FRÉGNAC Y., GARY-BOBO E., IMBERT M., TASSIN J.P. & TROTTER Y. Noradrenaline and functional plasticity in kitten visual cortex: a re-examination. 73

TUKMACHI E.S.A. *see* TAYLOR D.E.M. & TUKMACHI E.S.A. Effect of blood gases on input resistance of the canine cerebral and cephalic circulation. (C) 44*P*

TUPPEN A. *see* HUGHES G.M. & TUPPEN A. Microcomputer analysis of coupling and phase relationships between the cardiac and ventilatory rhythms of fishes. (D) 14*P*

VALE A.L. *see* BALFOUR D.J.K. & VALE A.L. Effects of nicotine on the habituation of rats to an elevated X-maze. (C) 34*P*

VICKERS Colin *see* PATERSON Anna T. & VICKERS Colin Reactions to hot-plate pain: effects of sex, strain, light cycle and social factors. (C) 35*P*

VRBOVÁ G. *see* SWANSON G.J. & VRBOVÁ G. Effect of protease inhibitors on mature endplates in rat muscle. (C) 82*P*

WADE N.J. & DE WEERT C.M.M. Adaptation effects in human binocular rivalry (C) 26*P*

WALSH E.G. *see* LAKIE M., WALSH E.G. & WRIGHT G. Changes in the resonant frequency of a limb induced by artificial changes of stiffness – a feedback method for measuring muscle tension and limb inertia in man. (D) 7*P*

WALSH JR John V. *see* SIMS Stephen M., SINGER Joshua J. & WALSH JR John V. Cholinergic agonists suppress a potassium current in freshly dissociated smooth muscle cells of the toad. 503

WALTERS G.E. *see* HICKS M.N., LINDEN R.J., MARY D.A.S.G., PEARSON M.J. & WALTERS G.E. Left atrial receptors and plasma renin activity in the dog. (C) 47*P*

WALTERS G.E. *see* HASSAN A.A.M., HICKS M.H., LINDEN R.J., MARY D.A.S.G. & WALTERS G.E. Effect of distension of the urinary bladder on efferent cardiac sympathetic nerves in the dog. (C) 48*P*

WATSON W.E. Sprague–Dawley rats receiving angiotensin into area postrema drink more saline. (C) 62*P*

WATT P.W. *see* CLAUSEN T., RENNIE M.J. & WATT P.W. ^{86}Rubidium uptake in the perfused rat hindlimb; stimulation by insulin. (PC) 96*P*

WATT P.W. *see* HUNDAL H.S., MACGILL J.N., RENNIE M.J. & WATT P.W. Inhibition of unidirectional sugar transport into perfused rat skeletal muscle by the fatty acid oleate. (PC) 97*P*

WHITTLE Elizabeth J. *see* BRYANS Cathy, TIMNEY B. & WHITTLE Elizabeth J. The role of binocular competition in strabismic amblyopia in kittens. (C) 25*P*

WIER W. Gil *see* KORT Arthur A., LAKATTA Edward G., MARBAN Eduardo, STERN Michael D. & WIER W. Gil Fluctuations in intracellular calcium concentration and their effect on tonic tension in canine cardiac Purkinje fibres. 291

WILLOUGHBY J.O. *see* BLESSING W.W. & WILLOUGHBY J.O. Inhibiting the rabbit caudal ventrolateral medulla prevents baroreceptor-initiated secretion of vasopressin. 253

WILSON M.G.A. *see* ELZINGA G., HOWARTH J.V., WILSON M.G.A. & WOLEDGE R.C. Stable maintenance heat rate is related to maximum tetanic force in isolated fibres from frog tibialis anterior muscle near 0 C. (C) 77*P*

WILSON S.M. *see* ELDER H.Y., MCEWAN JENKINSON D., MCWILLIAMS S.A. & WILSON S.M. Intracellular concentrations of sodium, phosphorus, chlorine and potassium in the ductal epithelium of unstimulated and active equine sweat glands. (C) 74*P*

WINLOW W. *see* CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. The effects of halothane on the withdrawal response of *Lymnaea*. (D) 8*P*

WINLOW W. *see* CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. The action of halothane on central neurones of *Lymnaea stagnalis*. (C) 42*P*

WINLOW W. *see* CRUICKSHANK S.G.H., GIRDLESTONE D. & WINLOW W. A method for the application of volatile anaesthetics to perfused isolated tissues. (PC) 89*P*

WINN Philip Effects of infusions of D-amphetamine into nucleus accumbens on measures of exploration in rats. (C) 43*P*

WOLEDGE R.C. *see* ELZINGA G., HOWARTH J.V., WILSON M.G.A. & WOLEDGE R.C. Stable maintenance heat rate is related to maximum tetanic force in isolated fibres from frog tibialis anterior muscle near 0 C. (C) 77*P*

WOOD L. *see* BAXENDALE R.H., FERRELL W.R. & WOOD L. Knee-joint distension and quadriceps maximal voluntary contraction in man. (PC) 100*P*

WOOD Rosamonde *see* AITON J.F., CRAMB G. & WOOD Rosamonde The use of transformed human lymphocytes to study cation transport and β-adrenoceptor function in manic depressive psychosis. (D) 4*P*

WOOD Rosamonde *see* AITON J.F., CRAMB G. & WOOD Rosamonde Measurement of intracellular nucleotide content of primary and established cell cultures using reverse-phase ion-pair chromatography. (D) 5*P*

WOOD Rosamonde *see* AITON J.F., NAYLOR G. & WOOD Rosamonde Effects of chronic vanadate treatment on intracellular ion contents, cation fluxes and ouabain binding in cultured HeLa cells. (PC) 91*P*

WRIGHT G. *see* LAKIE M., WALSH E.G. & WRIGHT G. Changes in the resonant frequency of a limb induced by artificial changes of stiffness – a feedback method for measuring muscle tension and limb inertia in man. (D) 7*P*

YEMM R. *see* NEWTON J.P. & YEMM R. Changes in contractile properties of the first dorsal interosseous muscle with age in man. (PC) 99*P*

YUDILEVICH D.L. *see* ABRAMOVICH D.R., DACKE C.G., PAGE K.R., SWEIRY J.H. & YUDILEVICH D.L. Evidence for carrier-mediated uptake of calcium and choline at maternal and fetal sides of the perfused human placenta. (C) 60*P*

ZOREC R. *see* MCBURNEY R.N., SMITH S.M. & ZOREC R. Extracellular caesium ions (Cs^+) activate a chloride (Cl^-) permeability in rat cultured spinal cord neurones. (C) 68*P*